

Permit #: 20007
County: CENTRY
CONFIDENTIAL UNTIL: _____

Date Issued: 12-74
Date Cancelled: _____
Date Plugged: 01-24-75

OGC FORMS	Date Received
1	
2	
3	
3i	
4	
4i	
5	
6	
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8	
11	
12	
Misc. Form 2	

COMMENTS:

Stripped 10-27-81 da

	TYPE	ID #	Date Received
Logs			
Samples	chip		
	core		
Analyses	water		
	core		
Additional Submitted Data:			

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL ☒ DEEPEN ☐ PLUG BACK ☐

NAME OF COMPANY OR OPERATOR The Anschutz Corporation DATE 9-26-74
1110 Denver Club Bldg Denver, Colo 80202
 Address City State

DESCRIPTION OF WELL AND LEASE

Name of lease John W. Patton Well number #1 Elevation (ground) 960 est

WELL LOCATION (give footage from section lines)
1980 ft. from (N) ☒ sec. line 1980 ft. from (E) ☒ sec. line

WELL LOCATION Section 20 Township 62N Range 30W County Gentry

Nearest distance from proposed location to property or lease line: 660 feet
 Distance from proposed location to nearest drilling, completed or applied - for well on the same lease: _____ feet

Proposed depth: 2600 ft. Rotary ☒ Cable tools _____ Approx. date work will start Dec 9, 1974

Number of acres in lease: 194 Number of wells on lease, including this well, completed in or drilling to this reservoir: 1
 Number of abandoned wells on lease: 0

If lease, purchased with one or more wells drilled, from whom purchased: Name _____ No. of Wells: producing _____
 Address _____ inactive _____
 abandoned _____

Status of Bond
 Single Well ☐ Amt. _____ Blanket Bond ☒ Amt. 30,000 ☒ ON FILE ☐ ATTACHED

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone) use back of form if needed.

Proposed casing program:				Approved casing - To be filled in by State Geologist			
amt.	size	wt./ft.	cem.	amt.	size	wt./ft.	cem.
<u>130'</u>	<u>8 5/8"</u>	<u>24 lb</u>	<u>to surf</u>	<u>OK as proposed</u>			
<u>to T.D.</u>	<u>5 1/2"</u>	<u>15.5 lb</u>	<u>150 sx</u>				

I, the undersigned, state that I am the geologist of the Anschutz (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature Henry Ohlen

Permit Number: 20007

Approval Date: DEC 74

Approved By: Wallace B. Hove

Note: This Permit not transferable to any other person or to any other location.

Remit two copies to: Missouri Oil and Gas Council

P.O. Box 250 Rolla, Mo. 65401

One will be returned.

☒ SAMPLES REQUIRED

☐ SAMPLES NOT REQUIRED

WATER SAMPLES REQUIRED @:

any DST's

SEP 30 1974
 MO. OIL & GAS COUNCIL

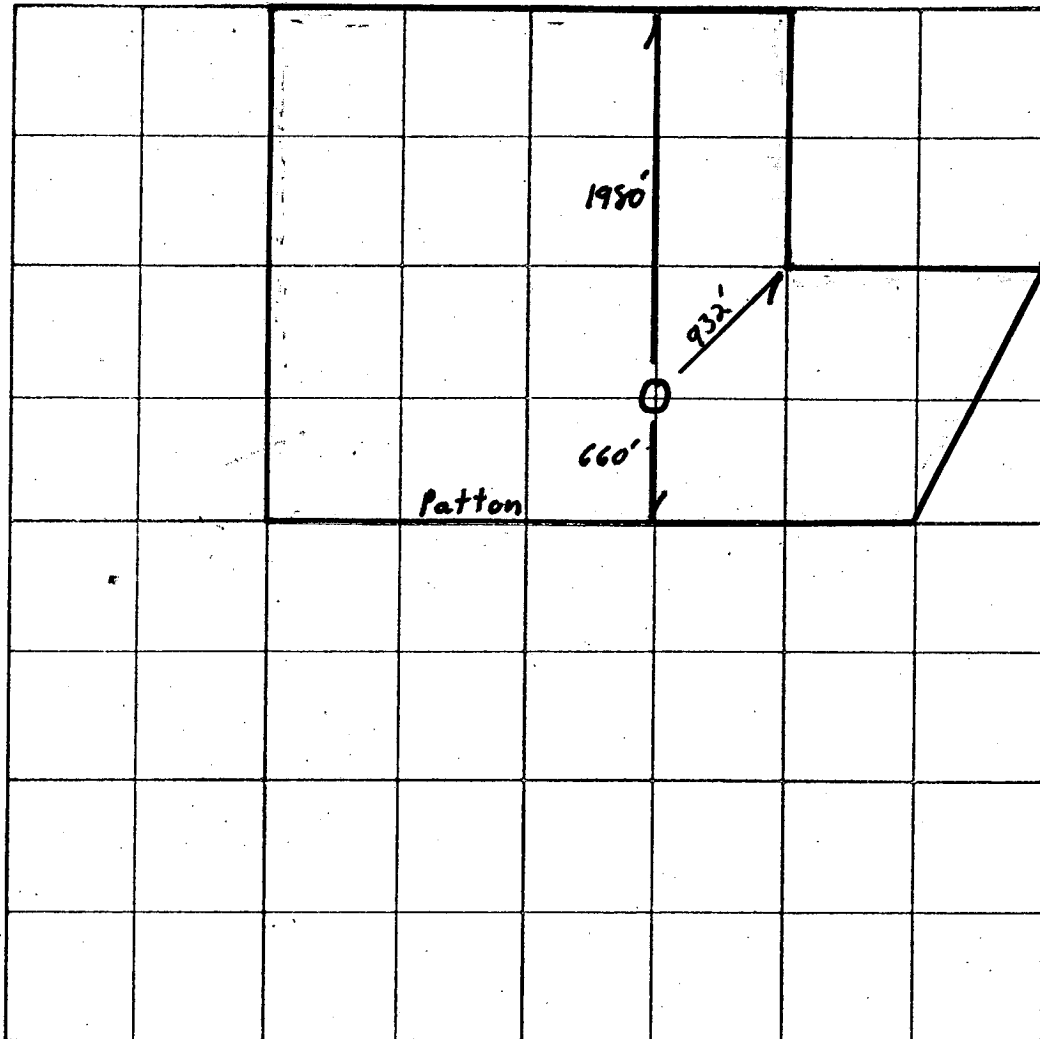
MISSOURI OIL AND GAS COUNCIL
WELL LOCATION PLAT

Form OGC - 4

Owner: The Anschutz Corporation

Lease Name: John W. Patton County: Gentry

1980 feet from (N) / (S) line and 1980 feet from (E) / (W) line of Sec. 20 Twp. 62N Range 30W



SCALE
1" = 1000'

REMARKS: Mt. Zion Church Area (#7)

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest lease and section lines, and from the nearest well on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well. Do not confuse survey lines with lease lines. See rule 7 - 3 (b) for survey requirements.

(SEAL)

Remit two copies to: Missouri Oil and Gas Council
P.O. Box 250 Rolla, Mo. 65401
One will be returned.

Registered Land Surveyor

MISSOURI OIL AND GAS COUNCIL

Form OGC-5

WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

New Well ☒ Work-Over ☐ Deepen ☐ Plug Back ☐ Same Reservoir ☐ Different Reservoir ☐ Oil ☐ Gas ☐ Dry ☒

Owner The Anschutz Corp., NCRA, Dow Chemical		Address 1110 Denver Club Building	
Lease Name John W. Patton		Well Number 1	Denver, Colorado 80202
Location 1980' FNL & 1980' FEL		Sec. -- TWP-Range or Block & Survey Sec. 20, T62N, R30W	
County Gentry	Permit number (OGC3 number) 20007		
Date spudded 1-14-75	Date total depth reached 1-24-75	Date completed, ready to produce P&A 1-24-75	Elevation (DF, RKB, RT or Gr.) 965 feet RKB
Total depth 2315'	Elevation of casing hd. flange 960 feet		
Producing interval(s) for this completion none		Rotary tools used (interval) From 0 to 2315' Drilling Fluid used Water & Gel	Cable tools used (interval) From none to
Was this well directionally drilled? no	Was directional survey made? no	Was copy of directional survey filed? no	Date filed -
Type of electrical or other logs run (list logs filed with the State Geologist) CNL-FDC-GR, DILL			Date filed 1-75

CASING RECORD

Casing (report all strings set in well—conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4"	8-5/8"	23#	213'	115	none

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Amt. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)					
Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity API (Corr.)	
Tubing pressure	Casing pressure	Cal'd rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas-oil ratio	

Disposition of gas (state whether vented, used for fuel or sold):

Method of disposal of mud pit contents:

Pits were backfilled and leveled

CERTIFICATE: I, the undersigned, state that I am the Oper. Engr. of the Anschutz Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

RECEIVED

MAR 24 1976

MO. OIL & GAS COUNCIL

Wayne C. Pinner
Signature

Remit two copies: one will be returned

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*																				
Base Kansas																							
City	316'																						
Cherokee	492'																						
Mississippian	1112																						
Kinderhook	1391																						
Lime Creek	1418																						
Hunton	1496																						
Masquekota	1848																						
Viola	1894																						
Simpson	2108																						
St. Peter	2174																						
Arbuckle	2199																						
Total Depth	2125'	2146'	Straddle test of simpson																				
			<table> <tr> <th></th><th>Min</th><th>Psi</th><th>Recovery</th></tr> <tr> <td>IF</td><td>3</td><td>17-52</td><td>30' mud</td></tr> <tr> <td>ISI</td><td>30</td><td>791</td><td>150' muddy water</td></tr> <tr> <td>FF</td><td>90</td><td>52-688</td><td>1525' water</td></tr> <tr> <td>FSI</td><td>90</td><td>774</td><td></td></tr> </table>		Min	Psi	Recovery	IF	3	17-52	30' mud	ISI	30	791	150' muddy water	FF	90	52-688	1525' water	FSI	90	774	
	Min	Psi	Recovery																				
IF	3	17-52	30' mud																				
ISI	30	791	150' muddy water																				
FF	90	52-688	1525' water																				
FSI	90	774																					
			No Cores																				

*Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well if available.

This Well Completion or Recompletion report and well log shall be filed with the Missouri State Geologist not later than 30 days after project completion.

MISSOURI OIL AND GAS COUNCIL

Form OGC-6

NOTICE OF INTENTION TO ABANDON WELL

Name of Lease J. W. Patton Date _____Well No. 1 is located 1980 feet from (N) (~~S~~) line and 1980feet from (E) (~~W~~) line of Section 20 Township 62N Range 30WGentry County The elevation of the ground at well site is 960'

_____ feet above sea level.

Name and address of Contractor or Company which will do work is:

Halliburton ServicesP. O. Drawer 1431, Duncan, Oklahoma 73533DETAILS OF WORK

(Indicate size, kind, and depth of plugs, where casing will be pulled, other pertinent details)

<u>Plug no.</u>	<u>Interval</u>	<u>Sx Cement</u>
1	2250-2150'	30
2	1280-1180'	30
3	240-140	25

Surface casing capped and marker installed

CERTIFICATE: I, the undersigned, state that I am the Oper. Engr. of the Anschutz Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.


Wayne C. Peir
Signature

RECEIVED
MAY 24 1976
MO. OIL & GAS COUNCIL

Remit two copies; one will be returned

**MISSOURI OIL AND GAS COUNCIL
PLUGGING RECORD**

Form OGR-7

Owner THE ANSCHUTZ CORPORATION				Address 1110 Denver Club Building			
Name of Lease J. W. Patton			Well No. 1	Location of Well Denver, Colorado 80202			
Location of Well 1980' FNL & FEL			Sec. Twp. Rge. or Block & Survey Sec. 20, T62N, R30W			County Gentry	
Application to drill this well was filed in name of The Anschutz Corp.		Has this well ever produced oil or gas no	Character of well at completion (initial production) Oil (bbls/day) - Gas (MCF/day) -		Dry? yes		
Date Abandoned: 1-24-75		Total depth 2315'	Amount well producing prior to abandonment Oil (bbls/day) - Gas (MCF/day) -		Water (bbls/day) -		
Name of each formation containing oil or gas. Indicate which formation open to well bore at time of abandonment		Fluid content of each formation		Depth interval of each formation		Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount cement	
none						30 sx cement plug (140'	
		Cement plugs as follows:					
		30 sx 140-- 240'					
		30 sx 1180 - 1280					
		25 sx 2150 - 2250					
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped, etc)	Packers and shoes		
8-5/8"	213	-	213				
Was well filled with mud-laden fluid? yes				Indicate deepest formation containing fresh water N/A			
NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE							
Name		Address			Direction from this well:		
Method of disposal of mud pit contents: Pits were backfilled and leveled							
Use reverse side for additional detail File this form in duplicate with							
<p>CERTIFICATE: I, the undersigned, state that I am the Oper. Engr. of the Anschutz Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.</p> <p align="right">  Signature </p>							

RECEIVED
MAR 24 1976
MO. OIL & GAS COUNCIL

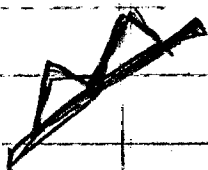
Remit two copies; one will be returned

- Recent Wells -

- Loc -

- Texaco Wells -

- Sands A -



564-
6688-

= Pat Hoss =
= Top Miss =
= 1112 =

Discard - 5 { 10

bad spls -

Swartz

= lost core on Miss =

FROM:

Baroid + Anschutz
Corporation

Patton #1 Albany, Mo

☒ PREPAID

☐ COLLECT ☐ C.O.D.

\$

BUSBILL NO.

SHIP VIA **BUS EXPRESS** FOR **SPEED-ECONOMY**

PLEASE CALL:

Jack
wells

364-1752

ON ARRIVAL

FORM NBTA-E22 (5/65)
PRINTED IN U.S.A.

TO:

Missouri Geological Survey
P.O. Box 250
Rolla, Missouri

Please call Jack
wells when
packages arrive
in Rolla. 364-1752

Formation Testing Service Report

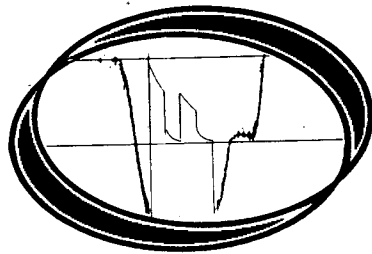
J. W. PATTON
Lease Name

1
Well No.

1
Test No.

2125 - 2146'
Tested Interval

THE ANSCHUTZ CORPORATION INCORPORATED
Lease Owner/Company Name



HALLIBURTON SERVICES
DUNCAN, OKLAHOMA

PRESSURE

TIME

790814-737

790814-397

Each Horizontal Line Equals 1000 p.s.i.

J. M. PATTON

Well No. 1

Test No. 1

2125 - 2146'

Tested Interval

THE ANSCHUTZ CORPORATION INCORPORATED

Lease Owner/Company Name

Legal Location Sec. - Twp. - Rng. SW NE 20 62 N 30 W

Field Area WILDCAT

County

GENTRY

State

MISSOURI

FLUID SAMPLE DATA				Date 1-23-75		Ticket Number 790814	
Sampler Pressure _____ P.S.I.G. at Surface Recovery: Cu. Ft. Gas _____ cc. Oil _____ cc. Water _____ cc. Mud _____ Tot. Liquid cc. _____ Gravity _____ ° API @ _____ ° F. Gas/Oil Ratio _____ cu. ft./bbl. RESISTIVITY CHLORIDE CONTENT				Kind of Job OPEN HOLE Halliburton District WINFIELD Tester J. DURHAM Witness J. EVERTTS		Drilling Contractor GRUPP DEVELOPMENT INCORPORATED SM S	
EQUIPMENT & HOLE DATA							
Formation Tested Viola Elevation 960' Ft. Net Productive Interval 21' Ft. All Depths Measured From Kelly bushing Total Depth 2146' Ft. Main Hole/Casing Size 7 7/8" Drill Collar Length - I.D. Drill Pipe Length 2090' I.D. 3.826" Packer Depth(s) 2120-2125' Ft. Depth Tester Valve 2102' Ft.							
Mud Weight 9.0		vis 70		cp			
TYPE		AMOUNT		Depth Back DCIP Valve		Surface Choke	
Cushion				Ft. Pres. Valve 2098'		Bottom Choke 3/4"	
Recovered	30	Feet of drilling mud with few oil specks					
Recovered	300	Feet of muddy water					
Recovered	1375	Feet of brackish water					
Recovered		Feet of					
Recovered		Feet of					
Remarks Tool opened for 2 minute first flow with a strong blow in 2 minutes.							
Closed tool for 31 minute first closed in pressure period. Tool							
reopened for 90 minute second flow with a strong blow throughout.							
Closed tool for 90 minute second closed in pressure period.							
TEMPERATURE		Gauge No. 737		Gauge No. 397		Gauge No.	
Depth: 2106 Ft.		Depth: 2142 Ft.		Depth: Ft.		TIME	
Est. ° F.		12 Hour Clock		12 Hour Clock		Hour Clock	
Blanked Off no		Blanked Off yes		Blanked Off		Tool	
2141'						Opened 2:05 P.M.	
Actual 89 ° F.						Opened A.M.	
						Bypass 5:38 P.M.	
		Pressures		Pressures		Pressures	
		Field	Office	Field	Office	Field	Office
Initial Hydrostatic		-	1020	-	1034	-	-
First Period	Flow Initial	17	22	-	50	-	-
	Flow Final	58	57	-	72	-	-
	Closed in	791	798	-	812	-	-
Second Period	Flow Initial	58	63	-	82	-	-
	Flow Final	688	702	-	719	-	-
	Closed in	774	785	-	800	-	-
Third Period	Flow Initial						
	Flow Final						
	Closed in						
Final Hydrostatic		-	999	-	1016	-	-

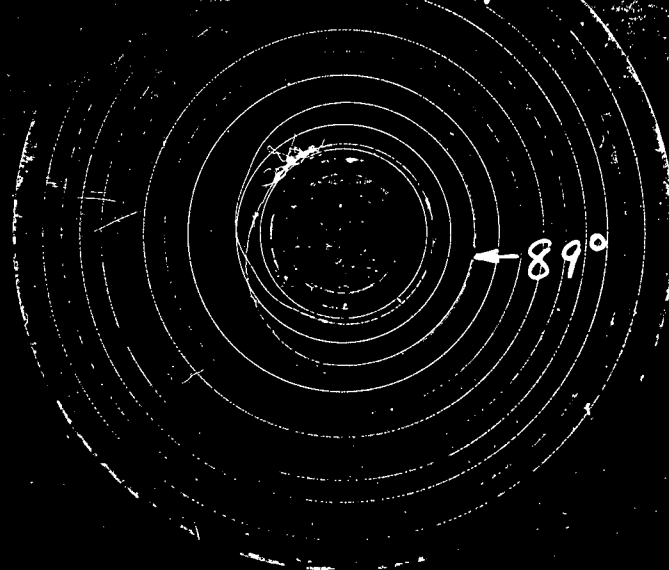
Gauge No. 737		Depth 2106'		Clock No. 4204		12 hour		Ticket No. 790814	
First Flow Period		First In Pressure		Second Flow Period		Second In Pressure		Third Flow Period	
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	$\text{Log } \frac{t + \theta}{\theta}$	Time Defl. .000"	PSIG Temp. Corr.
0	.0000 22	.0000		.0000	63	.0000			
1	.0160 57	.0202 *		.0997	241	.0402			
2		.0337		.1993	392	.0804			
3		.0472		.2990	504	.1206			
4		.0607		.3987	588	.1608			
5		.0742		.4984	654	.2010			
6		.0876		.5980	702	.2412			
7		.1011				.2814			
8		.1146				.3216			
9		.1281				.3618			
10		.1416				.4020			
11		.1550				.4422			
12		.1685				.4824			
13		.1820				.5226			
14		.1955				.5628			
15		.2090				.6030			

Gauge No.		397 ,		Depth		2142'		Clock No.		3228		12 hour		Minutes
0	.0000	50	.0000	72	.0000	82	.0000	.0000	7-9					
1	.0170	72	.0203*	803	.1010	260	.0406		788					
2			.0339	808	.2020	408	.0812		791					
3			.0474	809	.3030	520	.1218		793					
4			.0610	810	.4040	606	.1624		794					
5			.0745	810	.5050	670	.2030		795					
6			.0881	810	.6060	719	.2436		795					
7			.1016	811			.2842		795					
8			.1152	811			.3248		796					
9			.1287	812			.3654		796					
10			.1423	812			.4060		797					
11			.1558	812			.4466		798					
12			.1694	812			.4872		798					
13			.1829	812			.5278		798					
14			.1965	812			.5684		799					
15			.2100	812			.6080		800					
Reading Interval				2		15		6						

	O. D.	I. D.	LENGTH	DEPTH
Drill Pipe or Tubing	5 3/4"	2"	1'	
Reversing Sub				
Water Cushion Valve				
Drill Pipe	4 1/2"	3.826"	2090'	
Drill Collars				
Handling Sub & Choke Assembly	4 1/2"	3.826"	4'	
Dual CIP Valve	5"	3/4"	5'	
Dual CIP Sampler				
Hydro-Spring Tester	5"	3/4"	4'	2102'
Multiple CIP Sampler				
Extension Joint				
AP Running Case	5"	2 1/4"	4'	2106'
Hydraulic Jar	5"	1"	5'	
VR Safety Joint	5:	1"	3'	
Pressure Equalizing Crossover				
Packer Assembly	6 3/4"	2 1/4"	4'	2120'
Distributor				
Packer Assembly	6 3/4"	2 1/4"	4'	2125'
Flush Joint Anchor	5"	2 1/4"	17'	
Pressure Equalizing Tube				
Blanked-Off B.T. Running Case	5"	2 1/4"	4'	2142'
Drill Collars				
Anchor Pipe Safety Joint				
Packer Assembly				
Distributor				
Packer Assembly				
Anchor Pipe Safety Joint				
Side Wall Anchor				
Drill Collars				
Flush Joint Anchor				
Blanked-Off B.T. Running Case				
Total Depth				2146'

TEMPERATURE RECORDER CHART

#790814



10° each circle

OF_3	= Theoretical Open Flow Potential with/Damage Removed Max.	MCF/D
OF_4	= Theoretical Open Flow Potential with/Damage Removed Min.	MCF/D
P_s	= Extrapolated Static Pressure	Psig.
P_f	= Final Flow Pressure	Psig.
P_{ot}	= Potentiometric Surface (Fresh Water *)	Feet
Q	= Average Adjusted Production Rate During Test	bbls/day
Q_1	= Theoretical Production w/Damage Removed	bbls/day
Q_g	= Measured Gas Production Rate	MCF/D
R	= Corrected Recovery	bbls
r_w	= Radius of Well Bore	Feet
t	= Flow Time	Minutes
t_o	= Total Flow Time	Minutes
T	= Temperature Rankine	°R
Z	= Compressibility Factor	—
μ	= Viscosity Gas or Liquid	CP
Log	= Common Log	

* Potentiometric Surface Reference to Rotary Table When Elevation Not Given,
Fresh Water Corrected to 100° F.